T	Application No.	Applicant(a)	
	Application No. Applicant(s)		
Notice of Allowshills.	10/803,445	UDAYAKUMAR ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Hung Vu	2811	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due cours	se. THIS
1. This communication is responsive to <u>01/13/05</u> .			
2. The allowed claim(s) is/are <u>28-30 and 32-36</u> .			
3. \boxtimes The drawings filed on <u>18 March 2004</u> are accepted by the E	Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Applicati	on No	rom the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the required	ments
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus-	t be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			c) of
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F			the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview S	nformal Patent Application (PTO-15: Summary (PTO-413),	2)
 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/04 Paper No./Mail Date 3/18/04,4/27/04,10/15/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8), 7. Examiner's	Hung Uu Hung Vu	ce
		Primary Examiner	

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Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Applicant's claims 28-30 and 32-36 are allowable over the references of record because none of these references disclose or can be combined to yield the claimed semiconductor device comprising: an aluminum oxide material or a nitride aluminum oxide layer formed along at least a portion of a side of a ferroelectric capacitor, a first silicon nitride layer formed over at least a portion of the aluminum oxide, and a second silicon nitride formed over at least a portion of the first silicon nitride layer, the second silicon nitride layer comprising a low silicon-hydrogen SiN material having the property as claimed, in combination with the remaining claimed limitations of claims 28, 32 and 36.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Moise et al. (PN 6,534,809), Kanaya et al. (PN 6,586,790), and Nagono et al. (PN 6,730,951) disclose the formation of the aluminum oxide and/or the silicon nitride layer.

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3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung K. Vu whose telephone number is (571) 272-1666. The

examiner can normally be reached on Mon-Thurs 6:00-3:30, alternate Friday 7:00-3:30, Eastern

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Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on (571) 272-1732. The Central Fax Number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Vu

April 7, 2005

Hung Vu

Primary Examiner